

KENWOOD

DPC-971

PORTABLE COMPACT DISC PLAYER INSTRUCTION MANUAL

KENWOOD CORPORATION

Unpacking

Unpack the unit carefully and make sure that all accessories are out as they so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Before using the rechargeable battery pack

The rechargeable battery pack comes in a non-charged condition. Read "Battery-powered operation" carefully and charge the battery before use.



860-2740-00 (JA) (K) (P) (MC)

97/12 11 10 9 8 7 6 5 4 3 2 1 96/12 11 10 9 8

Safety precautions

DEC921 (J) 01

Caution: Read this page carefully to ensure safe operation.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

Please read all of the safety and operating instructions before operating this unit. For best results, follow all warnings placed on the unit and adhere to the operating and use instructions. These safety and operating instructions should be retained for future reference.

- 1. Power sources** — The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 2. Power-cord protection** — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them; pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- 3. Enclosure removal** — Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.
- 4. Drop** — Do not drop the unit or apply strong shock to it. (Damage due to dropping the unit is not covered by the warranty.)
- 5. Ventilation** — Avoid hindering the ventilation of the unit by covering it with a cloth, etc.
- 6. Abnormal smell** — If an abnormal smell or smoke is detected, immediately turn the power OFF, and pull out the power cord. Contact your dealer or nearest service center.
- 7. Heat** — Avoid placing the unit under direct sunlight or near a source of heat such as heating equipment. Particularly, never leave it in an automobile or on the dashboard.
- 8. Temperature** — The unit may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- 9. Water and moisture** — The unit should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 10. Dust and moisture** — Avoid places where is dusty or where the humidity is high.
- 11. Vibrations** — Avoid placing the unit on an unstable place such as a shelf or in a place subject to vibrations.
- 12. Magnetic fields** — Keep the unit away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- 13. Cleaning** — Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.
- 14. Nonuse periods** — The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 15. Damage requiring service** — The unit should be serviced by qualified service personnel when:
 - A.** The power supply cord or the plug has been damaged.
 - B.** Objects have fallen, or liquid has been spilled into the unit.
 - C.** The unit has been exposed to rain.
 - D.** The unit does not appear to operate normally or exhibits a marked change in performance.
 - E.** The unit has been dropped, or the enclosure damaged.
- 16. Servicing** — The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17. CAUTION** — TO PREVENT ELECTRIC SHOCK DO NOT USE THE AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Notes on using through car stereo

- In case of abnormality such as smoke production, immediately unplug the car battery adapter from the cigar lighter socket.
- Do not leave the products or batteries in the car, particularly above the dashboard, for this may lead to malfunction or damage due to solar heat.
- If the unit is connected to a car stereo using an audio cord, noise may sometimes interfere.

In case of abnormality, immediately press the open key to turn the power OFF, and unplug the AC adapter from the power outlet. Then please contact your nearest KENWOOD service center.

Battery powered operation

This unit can be powered with three kinds of supplies including the batteries, household power line and car battery.

The batteries may either be rechargeable batteries manufactured specially by KENWOOD or alkaline batteries. Be sure to remove the batteries from the unit when it is not to be used for a long period (of more than a week).

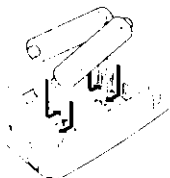
Rechargeable battery operation

(Remove the external battery case before recharging.)

The rechargeable batteries should be the batteries provided as standard accessories (NB-130) or optional NB-77 or NB-88. Never use other batteries than the rechargeable batteries manufactured for exclusive use with KENWOOD products.

Loading the rechargeable batteries

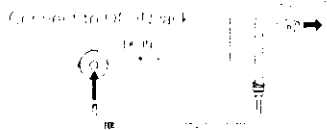
Insert rechargeable batteries paying attention to the (+) and (-) polarity.



Recharging the batteries

(1) Set the power OFF.

(2) Plug in the AC adapter.



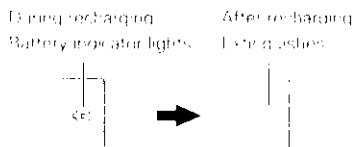
(3) Wait for 5 seconds, then press the ■ key twice quickly.

(4) After recharging, unplug the AC adapter from this unit.

- When using the rechargeable battery pack, the playing time which has been expected for more than 2 hours, the operating period may be shorter than normal. This is due to the properties of the battery and not a malfunction. After recharging, use the battery pack on the next time properly.

The original performance of the battery pack may not be recovered by repeating the cycle a few times.

- Recharging is not possible during playback. Be sure to set the power OFF before starting recharging.
- Recharge for 4 to 5 hours after the first use of the pack, leading to recharging.
- Recharging completes in about 3.5 hours with the NB-130 or about 2.5 hours with the NB-77 or NB-88. Do not recharge batteries for longer period than above.

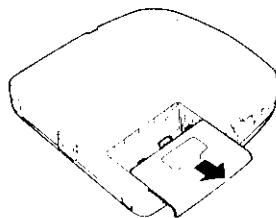


The unit returns to the power OFF state.

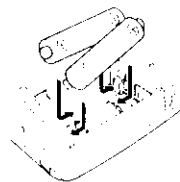
- Rechargeable batteries can be recharged for about 500 times. When the playable time per full charge reduces, please newly purchase the optional NB-130, NB-77 or NB-88 rechargeable batteries.

Alkaline battery operation

① Open the cover.



② Insert two LR6 alkaline batteries paying attention to the (+) and (-) polarity.



- Use commercially available LR6 alkaline dry cell batteries.
- We recommend the use of alkaline batteries because the playable time may sometimes extremely short when manganese batteries are used.
- Always replace both batteries at a time.

③ Close the cover.

External battery case operation

You can enjoy longer continuous playback by using the battery case together with the supplied rechargeable batteries (or separate alkaline batteries).

① Remove the cover of the battery case.



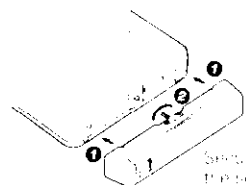
② Insert two LR6 alkaline batteries paying attention to the (+) and (-) polarity.



- We recommend the use of alkaline batteries because the playable time may sometimes extremely short when manganese batteries are used.

③ Close the cover.

④ Attach to the main unit.



Secure by turning the screw in the direction of the arrow.

Note

If the battery case is not to be used for a long period, detach it from the main unit. Otherwise, the power of the LR6 size dry cell battery may get recharged to the rechargeable batteries and the dry cell battery will be exhausted quickly. Also remove the dry cell batteries from the battery case.

Battery duration indicator

The duration of power, the battery indicator starts to blink is variable depending on the type of battery used.

Refer to the table on the right.

INDICATOR IS
HAND TO SEE

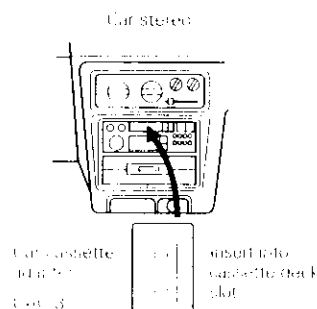
Battery duration indicator

Battery Type	Blinking Timing	Treatment
Rechargeable battery	When the battery is nearly exhausted	In a while, the power will be turned off automatically. Please change the battery pack.
Alkaline batteries	When the batteries are almost exhausted	Playback is possible while the indicator is blinking.

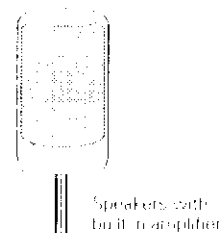
Ensure that the power of the all of the components is off before connecting the cords.

Listening through car audio

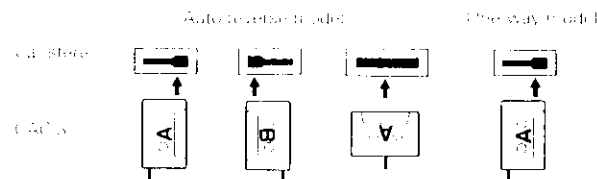
- If sound is not produced through the tape playing device of the car stereo, (sound is not produced if the car stereo is set to play tape side B.)
- Audio reproduction may be impossible with the following types of car stereo:
 - One way models which have the play head on the left side.
 - Models which automatically detect the tape position.
 - All the above car stereo models. The cassette is ejected automatically when the tape is inserted.



Listening through speakers



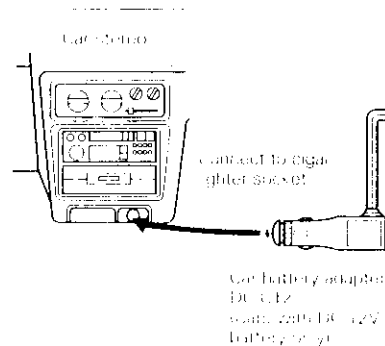
CAC-3 insertion methods



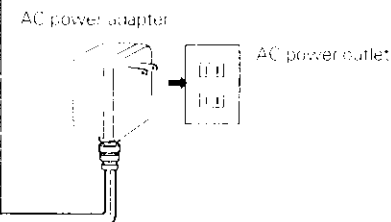
- Insert the CAC-3 by setting the played side as in the diagram.
- Push the top of the cassette into the CAC-3.

Car battery powered operation

- When the unit is not used, unplug the car battery adapter. (Otherwise the car battery may run out. (With some car models.)
- The plug may not match the cigarette socket of some car models.
- If the car is not equipped with the car battery adapter connected to the cigarette socket of a known type, the fuse can be replaced by turning the electrode on the tip of the adapter plug. When installing the fuse, be sure to use a fuse with a rating of 1.5A.



Mains power operation



Note:
The REMOTE terminal can be used only when the unit has headphones with remote controller.
Do not use this terminal for other purpose than the above.

Controls and indicators

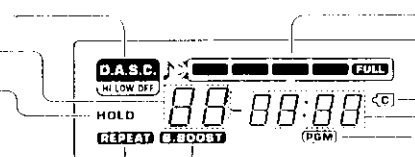
Display

Displays the B.A.S.C. mode

Displays the track number

Lights up when the OPEN/HOLD switch is set to the HOLD position

Repeat mode indicator which lights when one of the repeat modes is activated



Battery saving memory capacity indicator

Battery duration indicator which lights during recharging and blinks when the remaining battery power is low

1 character information display

Lights in program mode

B.BOOST indicator which lights when Base Boost is activated

Card remote control unit

When the card remote control unit is used, connect the AC adapter or car battery adapter to the main unit. The card remote control unit cannot be used if the main unit is powered from batteries.

Stop/power off key
Skip keys
P.MODE/search key



Play/pause key

REPEAT key

B.BOOST key

VOLUME key

After setting the VOLUME control of the main unit to the maximum position, adjust the listening volume with these keys.

The keys with the same names as the keys on the main unit function the same as the keys on the main unit.

Operating range (Approx.)

Main unit



30 30

3m

Remote control unit




- When pressing several operation keys on the remote control unit, leave an interval of more than 1 second between keys.
- Unintentional operation may occur when the main unit is illuminated by direct sunlight or the light of a high frequency lighting (incandescent fluorescent lamp). In such a case, change the unit position to prevent unintentional operation.
- For battery replacement, use a commercially available 6LR20 battery (CR2025).

Programming tracks in desired order

Desired tracks can be played in the desired order.

Preparations

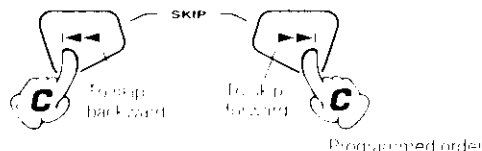
- Enter the stop mode by pressing the  key while playback.

1 Press the P.MODE/SEARCH key.



2 Select the desired track numbers in the order you want to play them.

① Select a track...



Track number blinks during selection.

② And enter it.



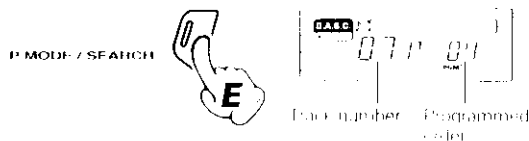
- Select other tracks in the desired order by repeating ① and ② above.
- Up to 20 tracks can be programmed at a time.

3 Start playback.



To change a programmed content

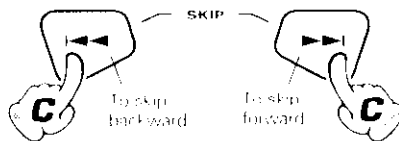
- ① Ensure that the player is in stop mode.
- ② Display the content to be changed.



- Press the P.MODE/SEARCH key repeatedly until the programmed order containing the track number to be changed is displayed.

③ Change the track number.

(1) Select a track...

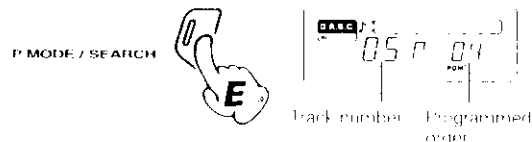


(2) And enter it.



To check the programmed contents

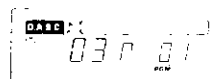
- ① Ensure that the player is in stop mode.
- ② Press the P.MODE/SEARCH key.



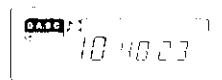
- Each press of the P.MODE/SEARCH key displays the next track number in the programmed order.

To clear the program

- ① Ensure that the player is in stop mode.



- ② Press the  key.

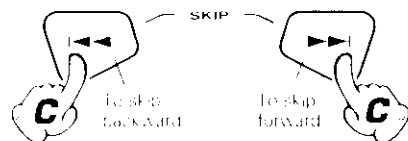


Press once

- Opening the lid cancels the program.

Shipping to or searching a desired track

Track selection by track skip



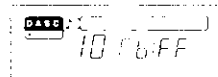
- The same number of tracks as the time the key is pressed can be skipped.
- When the left arrow key is pressed once during playback, the played material returns to the beginning of the current track being played.

Fast forward, fast reverse

Perform the following procedure during playback.

- 1 Press the P.MODE/SEARCH key.

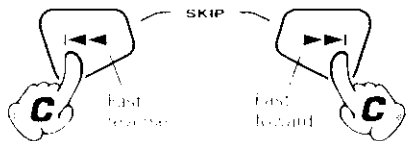
P.MODE/SEARCH



- Go to the next step within 6 seconds.

- 2 Press the left arrow or right arrow key.

Hold the key pressed during playback.



- Playback resumes from the position where the key is released.

Various playback features

Pressing the REPEAT key in the play or stop mode allows you to enjoy various playback features.

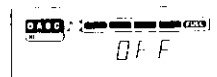
Press the REPEAT key.



Each press switches the repeat modes as follows.

- 1 Cancelled position

Returns to the normal playback mode.



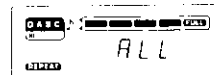
- 2 One-track repeat

The track being played or selected track will be played repeatedly.



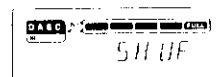
- 3 All-track repeat

All tracks on the disk will be played repeatedly.



- 4 Shuffle play

All tracks on the disk will be played in a random order.



- The REPEAT key may sometimes be invalid if it is pressed near the end of a track. In this case, press the REPEAT key after playback of the current track has completed.
- In case when the play is selected during playback, the playback of the selected mode starts after the current track being played has completed.
- The repeat of 2 or 3 above stops after 16 times of repeats.

Changing the tc

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Compensation of low frequencies

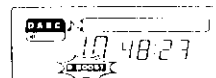
The low frequencies sound which is felt in headphone can be boosted.



Each press switches this feature alternately.

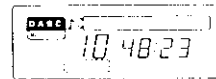
- 1 Bass Boost ON

Low frequencies are boosted.



- 2 Bass Boost OFF

Normal tone reproduction. Indicator goes off.



Goes off

Hold facility

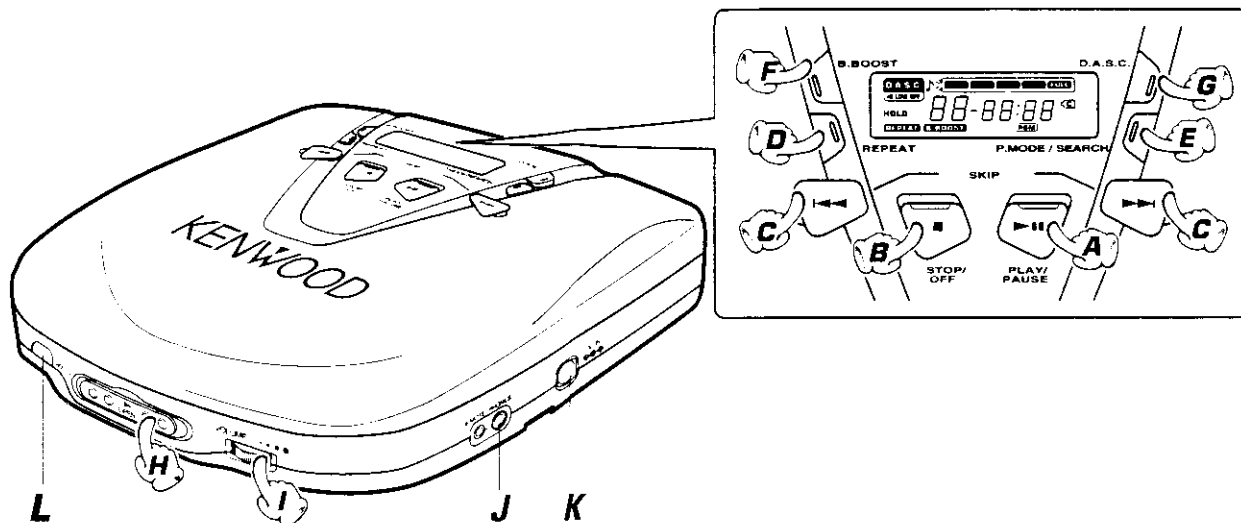
Note on the key operation

The operation keys of the main unit except for the OPEN/HOLD switch and volume control are defeated. This position prevents undesired operation when the unit is put in a bag, etc.

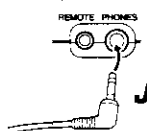


Set to the left side

- Be sure to release the switch used to the center position before performing any operations. Operation can't be performed if it is in the HOLD position.



1 Connect headphones.



- Accepts the supplied headphones, or other optional headphones with a mini plug.
- The REMOTE terminal can be used only when the unit has headphones with remote controller.

5 Make sure the HOLD switch has been released.



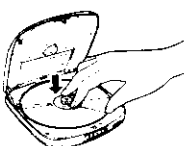
- Release the HOLD switch when performing an operation.

2 Open the top cover.



3 Place a disc.

Place with labeled side up.



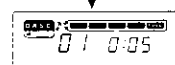
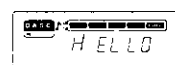
- Secure the disc by pushing a position near the center hole until it clicks.

4 Close the top cover.



- Press down on the central front portion of the lid until it clicks.

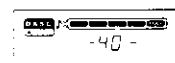
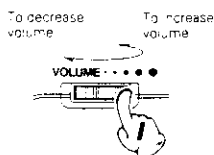
6 Start playback.



Track number Elapsed time of the track

- The power comes ON and playback begins.

7 Adjust the volume.



Volume display

The letter written on the hand in each illustration accompanying the text indicates the position of the pressed key on the unit.

A PLAY/PAUSE (▶||) key

Press to play a disc, pause playback or switch power ON.

B STOP/OFF (■) key

Press to stop the disc, turn power OFF or recharge the unit.

C SKIP (◀◀ ▶▶) keys

Press either key to skip tracks.

D REPEAT key

Press for using various playback features.

E P.MODE/SEARCH (Play mode/Search) key

Press when using the program playback function or press together with one of the SKIP keys to initiate the fast forward or fast reverse operation.

F B.BOOST (Bass Boost) key

Press to activate low-frequency compensation.

G D.A.S.C. (Digital Anti Shock Circuit) key

Press to switch the Digital Anti-Shock Circuit which prevents sound from skipping.

H OPEN/HOLD switch

Use to open the top lid and turn the hold function on/off.

I VOLUME control

Turn to adjust the listening level.

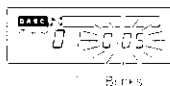
J PHONES (Headphones) jack

K DC IN (External DC power input jack) jack

L Remote receptor

This section senses the remote control signals when the card remote control unit is used.

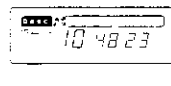
To pause playback temporarily



Tracks

- When the ▶|| key is pressed during playback, it pauses temporarily. Pressing the key again resumes playback.

To stop playback



- The total number of tracks and the total playing time of them will be displayed.

To turn power OFF

After stopping playback, press the ■ key again.



Auto power-Off function

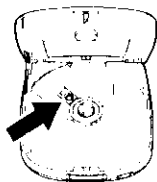
If no operation key has been pressed for 3 minutes while the unit is in the stop mode, the power is turned OFF automatically to prevent battery power consumption.

Maintenance

Simple care

Care of lens

When the lens of the pick-up gets dirty, malfunctions including the impossibility of playback may occur. The lens should be cleaned once a year externally, with a blower or lens blower, etc. Do not touch the lens to prevent damaging the mechanism. Also do not use a lens cleaner or disc cleaner product.



Care of main unit

When the unit gets dirty, clean with a soft, dry cloth. If the unit is stained seriously, a moistened cloth can be used. Do not use benzine or thinner for these will damage the unit.

Cleaning the plug

Wipe the headphone plug with a soft cloth to keep clear.
A dirty plug may cause noise or malfunction.

Caution on disc used

Usable discs

This unit is capable of playing discs marked with "CD". Other discs can not be played. For example CDS can be played as they are, do not use a commercially available single CD adapter.

Handling

Hold compact discs so that you do not touch the playing surface.

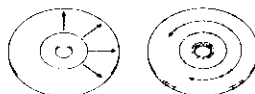
Do not attach paper or tape to either the playing side or the label side of compact discs.

Never play a cracked or warped disc.

During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc, or a disc repaired with tape or adhesive agent.

Cleaning

If fingerprints or foreign matter become attached to the disc, gently wipe the disc with a soft cotton cloth far from the center of the disc in a radial manner.



Storage

When a disc is not to be played for a long period of time, remove it from the CD player and store it in its case.

Precaution against condensation

Immediately after a room is heated or in a room with high humidity (for vapors), the unit may malfunction due to the condensation of dew or mist on the pick-up lens. In such a case, leave the unit for about an hour before trying to use it again.

Before applying power

Caution: Read this section carefully to ensure safe operation.

AC adaptors are designed for operation as follows.

U.S.A. and Canada	AC 120 V only
Australia	AC 240 V only
Europe and U.K.	AC 230 V only
Other countries	AC 110-120 / 220-240 V switchable

For the U.S.A.

FCC WARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modification is expressly approved by the manufacturer in writing. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio or communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For CANADA

NOTICE:

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

The marking of products using lasers (Except for some areas).

CLASS 1
LASER PRODUCT

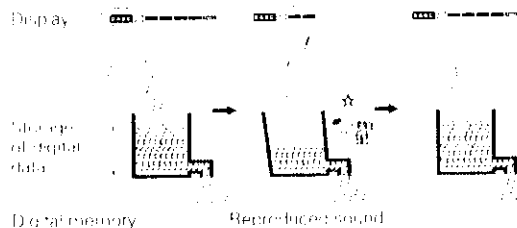
This label is attached to the bottom panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Sound skip guard function (D.A.S.C.)

• D.A.S.C. (Digital Anti Shock Circuit)

It prevents skipping by storing the CD's digital data in memory, and then playing back from the memory.

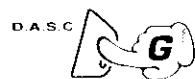
Mechanism of D.A.S.C.



- In case of vibration above a certain degree, the memory data may be exhausted and the guard from sound skip may become temporarily ineffective.

Setting the D.A.S.C.

Each press changes between the following.



① D.A.S.C. HI

Digital data of about 10 seconds is stored in memory. This is the anti shock play mode, with a large vibration resistance effect.



② D.A.S.C. LOW

Digital data of about 4 seconds is stored in memory. This mode provides a larger vibration resistance but better sound quality than the D.A.S.C. HI mode.



③ D.A.S.C. OFF (cancel)

When the player is used in a place free of vibration, it is recommended to release the D.A.S.C. to extend the play time by reducing the battery power consumption.



- The reproduced sound is interrupted during switching.

In case of difficulty

What seems to be a serious trouble may sometimes be due to a simple mistake. Before calling for service, check the items shown in the following table again. (If you request servicing due to the reasons shown in the table, the service may be charged in some cases.)

Symptom	Cause	Remedy
No operation occurs when operation keys are pressed.	<ul style="list-style-type: none"> • The OPEN/HOLD switch is set to HOLD. • The batteries are exhausted. • The disc is placed upside down. • Condensation has occurred inside the unit. • The AC adapter or car battery adapter is disconnected. 	<ul style="list-style-type: none"> • Set the switch to center. • Replace both of the two alkaline batteries, or recharge the rechargeable batteries. • Place the disc with the labeled side up. • Leave the unit for about 1 hour before re-use. • Connect it properly.
No sound is heard from the headphones.	<ul style="list-style-type: none"> • The headphones are disconnected completely. • The volume is set to its minimum position on the main unit. 	<ul style="list-style-type: none"> • Insert the plug securely into the PHONES jack. • Adjust the volume on the main unit.
Sound skips, or is interrupted.	<ul style="list-style-type: none"> • The D.A.S.C. is set to OFF. • A strong vibration that exceeds the capacity of the D.A.S.C. has occurred. • The disc is dirty. • The lens is dirty. • The headphone plug is dirty. • The batteries are low. 	<ul style="list-style-type: none"> • Set the D.A.S.C. to ON. • Place the unit in a place not subject to vibration. • Clean it. • Clean it. • Clean it. • Replace or recharge the batteries.
Noise interferes.	<ul style="list-style-type: none"> • The headphones are dirty. • The batteries are low. • The headphones are connected incompletely. 	<ul style="list-style-type: none"> • Clean it. • Replace or recharge the batteries. • Insert the plug securely into the PHONES jack.
Rechargeable batteries cannot be recharged.	<ul style="list-style-type: none"> • Commercially available rechargeable batteries are used. • The external battery pack is attached to the unit. 	<ul style="list-style-type: none"> • Use the specified rechargeable batteries (NR-130, NR-77 or NR-89). • Remove the external battery pack.

Note

1. This system uses a microcomputer so it may malfunction due to external noise or interference. In such a case, unplug the power cord and remove the batteries, then plug the power cord again and insert the batteries again.
2. Frequent operation may occur when the headphone plug is plugged or unplugged, but this is not a malfunction.

Specific Functions

Format

System Compact disc digital audio system

Laser Semiconductor laser

Audio

Frequency response 20 Hz ~ 20 kHz, ± 3 dB

Headphone output (16 Ω , 1 kHz) 10 mW + 10 mW

(PHONES output level/impedance max. 900 mV/15 Ω)

Power supply

External DC supply DC 12 V

Rechargeable batteries (NB-130) $\times 2$ DC 2.4 V

Commercially-available alkaline batteries (LR6/ AA) $\times 2$ DC 3 V

Battery life (continuous repeat playback)

(Figures inside parentheses are the values when D.A.S.C. is ON.)

Commercially-available alkaline batteries (LR6/ AA) $\times 2$ Approx. 10.5 (8.0) hours

Rechargeable batteries (NB-130) $\times 2$ Approx. 7.0 (5.0) hours

With 2 commercially-available alkaline batteries and
rechargeable batteries Approx. 16.5 (13) hours

With 4 commercially-available alkaline batteries Approx. 24 (17) hours

Dimensions (W \times H \times D) 129 mm \times 32 mm \times 138 mm

(5 - 1/16" \times 1 - 1/4" \times 5 - 7/16")

Weight (net) 265 g (9.3 oz.)

Note

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Accessories	DPC-971
AC adaptor	1
Headphones	1
Rechargeable batteries	NB-130 $\times 2$
Battery case	1
Card remote control unit	1
Car battery adaptor	1
Car cassette adaptor	1

The provided accessories are variable depending on the areas where the product is sold.

The accessories which are not equipped as standard are optional & available. For details, please consult your dealer.

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on the product.

Model Serial Number